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3 [Ano14z, Ano15y]. 4 [FDE+17]. *N* [MHM19].

-Gram [MHM19].

/Should [HR11].

10 [TS11]. **10-Minute** [Whi12]. **15** [Ano15-35]. **178C** [MLD+13].

2.0 [GAM+17, ST10]. **2010** [Shu11f]. **2013** [ZK14]. **2015** [Ano15-32]. **2016** [Ano15b]. **2019** [Ano18g, Ano18a, Ano18b, Ano19r, Ano19-54, CM19]. **21st** [Ano14-32, MPD14, PRRT14].

3.0 [ABB+18].

40 [Gre17a]. **40th** [Ano17b, Ano18c]. **41st** [Ano18d].

5 [FSM14].

9 [Bla18a].

Abstractions [Zam17]. **Abundance** [Spi17b]. **Academia** [CP18, SPA11, WAA+12]. **Academic** [CH15c, GF17, MSSMDC14]. **Access** [ASB+12, GP13, KSW10, TT11]. **Accessible** [Ano17c]. **Accomplishments** [TD19]. **Accuracy** [LCYL14]. **Accurate** [FS12]. **Achieve** [Ano16c, Ano17e, Ano17d]. **Achieving** [FSM14, HBCH14, ZXT+15].

ACM [Ano17f, Ano19c]. **ACM/IEEE** [Ano19c]. **Acquisition** [BKB12]. **across** [PMCE12]. **Act** [LTS12]. **Action** [RCP$^+$12, SPA11]. **Actionable** [GAM$^+$17, PT18, YFMH18]. **Actor** [Til16b]. **Ad** [RNA$^+$14, RNA$^+$16a]. **AdaCore** [Bro19]. **Adages** [PHA$^+$17]. **ADAPT** [VSB$^+$16]. **Adaptable** [Ano17m, LX17]. **Adaptation** [AGK$^+$19, BCLP15, PWF$^+$19, RRL$^+$17, WG10]. **Adapting** [GFT15]. **Adaptive** [BBB$^+$19, CGE19, HLS17, NPJ19]. **Adding** [KC16]. **Adopt** [MFS15]. **Adopters** [ES16]. **Adopting** [SF15]. **Adoption** [ACHC11, SSS15a]. **Advancement** [Sca19]. **Advances** [SWB$^+$17, EHS15]. **Advancing** [ABH$^+$11]. **Adversaries** [CHDK$^+$16]. **Advertisement** [Ano14d, Ano14j, Ano14l, Ano14n, Ano14x, Ano14-31, Ano14-32, Ano15e, Ano15f, Ano15n, Ano15o, Ano15q, Ano15r, Ano15b, Ano15z, Ano15-27, Ano15-28, Ano15-29, Ano15-30, Ano15-31, Ano15-35, Ano15-36, Ano16c, Ano16g, Ano16n, Ano16t, Ano16u, Ano16r, Ano16y, Ano16-37, Ano16-39, Ano16-41, Ano16-35, 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[SB16]. **Anticipation** [Poo16]. **Antipatterns** [KUG19]. **Anxiety** [Gau13]. **Apache** [Mey16]. **Apart** [GF17]. **API** [LXB$^+$15, UR15]. **APIs** [Spi12a]. **App** [BCN16, CM19, KSNH15, KNH16, PSO12, RNA$^+$16b, SS17, VMvG12, Sad14, GAM$^+$17]. **Appealing** [NHM19]. **Applicability** [Scr18]. **Application** [BKB12, CSS12, GKD$^+$15, LL16, NS17, SSE12, VAC$^+$17, ZML$^+$12]. **Application-Screen** [GKD$^+$15]. **Applications** [ABB$^+$15b, BW17, DSM$^+$18, DS13, GRD11, GE11, GD12, Gho10, GP13, Gun10, KAC$^+$18, LXC15, Lou10, Lou16, RPP19, Ano19f]. **Apply** [TD12]. **Applying** [LMMO18]. **Appreciating** [BHN^{+}10]. **Approach** [BW14, CFF^{+}13, CH13c, Dig11, FSB^{+}12, GKD^{+}15, HJP16, KSW10, LNH^{+}11, MZLD12, SCB15, TEvdHP12, WLD19]. **Approaches** [KDM^{+}19]. **Approximating** [CM12]. **Apps** [AFT^{+}15, MHJ17, MSAH17, MAN^{+}14, RNA^{+}14, RNA^{+}16a, SHG13, ZCLL19]. **Archaeology** [UG18]. **Architect** [Ano16-42, Bas18, Boo11a, Boo12d, Bus11c, Bus12b, CH14a, EP16, HOZZ16, Kee15a, Kle16, Kri17, Poo16, Ric11, Spi16b, TKF16, WG16, Woo14b, WF18]. **Architecting** [MGMS11, Poo14, RL16, Woo15b]. **Architects** [AMK16, BSD16, Cle10, Cor13, EP17b, Fab10, FCN16, Ris12a, Woo17, Wri11]. **Architectural** [AACF13, BW17, Boo10a, Fai14, KHYT18, LMM^{+}15, Lat12, Roz15, SM10a, Woo14a, Woo16a, Woo16b, ZCTZ13, Zim11, Zim15]. **Architecturally** [CBN13, CH13c, CH13d]. **Architecture** [ABK10, ASB^{+}12, ASH13, BHJ16, BGK15, BWC10, Boo10c, Boo10b, Boo10e, Boo10f, Boo11b, BMSF15, Bus10c, BH10a, BH10b, Bus11a, Bus11b, BAA^{+}12, BH13, CM10, CNZC17, CVEK13, CHHSM13, Cra14, CMC^{+}12, DSM^{+}18, FCS^{+}10, GK15a, HA11, Joh15, Kee15a, Kee15b, KSW10, Ker17, KDGV13, LAH10, LDO^{+}14, Mad10, MH14, NOS12, PvdHM15, PTV^{+}10, PCRPE19, Pra17, SR16, SHG14, Shu13a, Spi15a, TVS10, TMB17, Vol10, Wat18a, Wat18b, WL12, Woo15a, Woo15b, Woo16c, vHEA^{+}14, Sun19]. **Architecture-Conformance** [PTV^{+}10]. **Architecture-Driven** [CM10]. **Architectures** [BvD10, CCC^{+}19, LR12, SA19, Spi18d, Stu18, TM18, WE16, WCG16]. **Areas** [GF17]. **Arguing** [GHH^{+}12]. **Art** [MIC19, Spi17f]. **Articles** [Ano19o, ZK14].

Artifacts [ZZJJ15]. **Artificial** [BDH^{+}19]. **Aspects** [Boo14b, Haz10]. **Assembly** [SV16]. **Assertive** [Hol15a]. **Assessing** [APPV19, CSS13]. **Assessment** [FN14, HBS19, ILM11, ZF13]. **Assets** [Zim11]. **Assignment** [dSAPW^{+}14]. **Assisted** [dSAPW^{+}14, GVSP^{+}17]. **Assurance** [CPP16, RLBR12]. **Assuring** [Shu11a, Shu12c]. **Asymmetry** [Hol19a]. **Asynchronous** [Dig15]. **ATAM** [BGK15]. **Athletic** [HJP16]. **Attacks** [BFKZ15]. **Attribute** [KHYT18]. **Attributes** [HL11]. **Authors** [RBE19, ZPHW16]. **Autobiography** [Boo15d]. **Automated** [AFT^{+}15, AIT15, BH17, CS18, GF16, GTS^{+}19, LCYL14, MHM19, SAO^{+}17, ZML^{+}12]. **Automatic** [YLK^{+}17]. **Automation** [GE17, MHJ17, Ozk19a, Pec13, PRPE13]. **Automotive** [AS17, dSAPW^{+}14, EF17, FLC17, HOBK17, LWCP17, LDBF19, Mos10, PST^{+}17, SSE12, TMB17, Tsa11]. **Autonomic** [SEK^{+}19]. **Autonomous** [EW19]. **Availability** [Ron16]. **Aviation** [GTS^{+}19]. **Award** [Ano16e, Ano16p, Ano16r, Ano16q, Ano16b, Ano17i, Ano18f, Ano19c, Ano15b, Ano17f, Ano17x, Ano18a, Ano18b, Ano19c]. **Awards** [Ano16d, Ano17h, Ano18-37, Ano18-38]. **Aware** [Ano17m, BW17, CPB^{+}17, FKL19, MCHK17, MTT^{+}15, SWB^{+}17, WLD19]. **Awareness** [CYM^{+}15, LCE13]. **Away** [Bro19].

Babbage [Ano18a, Ano18b]. **Back** [SDSP17, Vol11]. **Backouts** [SCB15]. **Bad** [BZd18, TL18, vGH19]. **Badges** [NHM19]. **Balancing** [LTS12]. **Balls** [Hol18b]. **Bank** [LTv19]. **Banking** [BDD^{+}18, CPP10]. **Barriers** [ZSMP17]. **Barry** [EM18, Tho15a]. **Baseball** [Val17]. **Based** [AGK^{+}19, ABB^{+}15b, AFT^{+}15, Ano16-41, ADH14, ABC^{+}11, BBB^{+}11, BKB12, BHS^{+}14, BDD^{+}14, BO17, BW14, DHB15,

DS13, DPCL14, FSB+12, FFGM13, GD11, GVSP+17, HA11, Hof10, KCT12, KZW15, KCD12, LX17, LNH+11, MFS15, MHF17, NS17, PL19, PvdHM15, PS14, RRL+17, Sch12, Til15, TEvdHP12, ZZJJ15]. **Baton** [Shu14e]. **Bayesian** [FN14]. **Be** [Ano16t, Ano16u, Ano16s, Ano18t, Ano18u, BWD+17, Erd10a, HR19b, HR11, BS15, PPMD17]. **Beach** [Shu11b]. **Become** [Ano17g]. **Before** [Bus12a]. **Behavior** [Ano16-32, RRL+17, dSMdSC16]. **Behavior-Driven** [Ano16-32]. **behind** [Rou12, WK15]. **Being** [SvGH15, Spi13c, Spi16a, Spi18a]. **Belief** [DZB18]. **Believe** [Ano12b, Shu12d]. **Bells** [DeM13]. **Ben** [Blu19, Mey16]. **Benefit** [HBS17a, HBS19, Ris10a]. **Benefits** [Che15, HTE16]. **Bespoke** [Spi14a]. **Best** [BCD+17, Bus11c, DFFP18, GLA14, HBS17a, LCA17, MGS+18a, PPMD17, Shu14d, Ano18v, Ano19-35]. **BestBuy.com** [Cra14]. **Better** [Ano16-33, Ano16-34, Ano17-38, Ano17-35, Ano17-36, Ano17-37, EHMFT19, Fai19a, IML16, Jor16, Ano17j, Ano17-34]. **Between** [Jor19, MAGT19, EJ12, GV11, KNH16]. **Beyond** [BBM+15, HBCH14, Men13, CSS11]. **Big** [Ano14-27, Ano16x, Ano16-37, Ano16-36, Ano19k, Ano19l, Ano19p, Ano19q, Boo14a, Boo14b, CKH16, GK15a, GBM16, LE13, MHLCL16, Shu13c, SPB16, WZX+16, HTE16]. **BIP** [BBB+11]. **Birth** [GO15]. **Bit** [Boo15e]. **Black** [MHJ17]. **Black-Box** [MHJ17]. **Blind** [Boo10d, Car19]. **Bloat** [MSS10]. **Blockchain** [KV18, LX17, Scr18]. **Blockchain-Based** [LX17]. **Blockchain-Enabled** [KV18]. **Blocks** [KV11]. **BlueGriffon** [DeM14]. **Blueprint** [RMM+12]. **Board** [Tsa11, Ano19-31, Ano19-32, Ano19-33]. **Bob** [Ano10b]. **Boccara** [Bel19]. **Boehm** [EM18]. **Boilers** [Boo15e]. **Boldly** [Bus12a]. **Books** [SCC11]. **Boring** [Boo13d]. **Boson** [Rou12]. **Bots** [Boo15e, LSZ18]. **Bottlenecks** [LDBF19]. **Bought** [LC11]. **Bound** [RTV12]. **Bounds** [Hol15d]. **Box** [MHJ17]. **BPMN** [Ano16-32, LMG16]. **Brace** [Hol16a]. **Bracha** [TW14a]. **Brand** [Mai10a]. **Brave** [Shu12a]. **Brazil** [FWK+15, dOMFP16]. **Break** [RK13]. **Breezing** [Kri17]. **Brian** [WCFG10]. **Bridge** [Ano14-41]. **Bridging** [BBS13a, GJO+18]. **Bringing** [Cap14, Obr13]. **Brock** [Ano10b]. **Broken** [Jun18]. **Budzier** [Blu16]. **Bug** [NHM19, RPP19, ZCLL19]. **Build** [BMDK15, MM18b]. **Building** [CGE19, CNSM13, KV11, NPJ19, SCW+18, WZX+16]. **Bullet** [Ozk19a]. **Bullets** [Mar12]. **Burning** [FS10]. **Burnout** [MAGT19]. **Business** [ABC+11, BKB12, Bro19, CB10, EJ12, FP11, HBS17b, LRP11, LKR16, MCH15, MZLD12, ORM+17, OT11, Pop11, Rie11, Ris12a, RBE19, RSH12, SR16, Spi16d]. **Bütow** [Sal18]. **Buzz** [PB16]. **Bytecode** [SEK+19].

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VGD19, WHR14, WMM18, YFMH18, Zam17, ZBOC12, dGNA$^+$11, And15, Ano18c, Ano18d]. **Engineers** [ABB+15a, BCB+17, Bla17, DZB18]. **Enhance** [Als13]. **Enhanced** [NCK11]. **Enhancing** [LSCK12, Pel12]. **Enough** [BS15, Gre18a, Gre18b, Poo16]. **Enterprise** [Boo10e, ED19, FFZ+18, Gho10, GP13, Ker18c, Lou16, PCRPE19, ZPHW16]. **Enterprises** [Tho15a]. **Entities** [LMMO18]. **Entrepreneur** [Ano16e]. **Environment** [BCB+17, Spi13b, dMHSC16]. **Environmental** [ZML+12]. **Environments** [GLA14, WZX+16, ZXT+15]. **Equivalent** [FC19]. **Era** [MT19, SMN19, TM17]. **Ericsson** [BSD16, PL19]. **Errors** [Ham18]. **Escalations** [WLD19]. **Establishing** [TBvRB12]. **Estimating** [CSS12, NCK11]. **Estimation** [BE11b, ES14, Jor13, Jor14]. **Ethical** [Boo14b, GM10]. **Ethics** [Ozk19b]. **European** [KDM+19]. **Evaluating** [Ano17p, HSEG10, PSO12, dOdA16]. **Evaluation** [KZW15, OCFLI14, RO15]. **Evasion** [Hol15b]. **Everyone** [VGD19]. **Everywhere** [Shu14b, Spi10d]. **Evidence** 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James [And16, Shu12a]. **Java** [BH17, BMDK15, Bla18a, GD12, GS11, MSS10, OCFLI14, ZKB+16]. **JavaScript** [Kie10, RPP19, TT11]. **Jay** [Til16a]. **Job** [Ano14d, Ano14c, Ano16g, Ano16f, Ano17q, Ano18v, Ano19-35, SS18, Ano15g]. **Jobs** [Ano19-31, Ano19-32, Ano19-33, LTv19, LAAN10]. **John** [Jun18]. **Johnathan** [Kim19]. **Joint** [FTP11]. **Jonathan** [Bel19]. **Josh** [Bla17]. **Journey** [Boo11a, Gre17b, Gue14, JPM+18, DK11]. **July** [Shu11f]. **Jungle** [MHF17]. **Jürgen** [Blu16]. **Just**

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Kanban [SJS12]. **Katie** [Sal17]. **Keep** [Ano15q, Ano15r]. **Keeping** [CHDK+16]. **Ken** [Ano18-37, Ano18-38]. **Kennedy** [Ano18-37, Ano18-38]. **Kernel** [KB12]. **Key** [BBC+16, CCWP11, Zam17]. **Kicking** [CH13b]. **Kief** [Joh17]. **King** [Tor15]. **Kirks** [Mai12e]. **KLOVER** [YLK+17]. **Know** [CH14b, GFH18, GFKY18, GKF19, GUP+14, Jor14, KT18, PHAH16, Ris10c, She15, SMT+10]. **Knowledge** [CNZC17, CH15b, IML16, ORM+17, PvdHM15, SMLF19, WG16, Ano17-41, Ano17-40, Ano18-34, Ano18-35]. **Knowledge-Based** [PvdHM15]. **Kudos** [Ano10b].

Laartz [Blu16]. **Labels** [NKR+18]. **Lander** [BBP+16]. **Landing** [Bal18, Hol13]. **Landscape** [AS17, CMP17, GSA+17]. **Language** [BBB+19, CCMT16, DFFP18, FDE+17, MPD14, Mey14b, PB16, Vol10, WKV14]. **Languages** [Ano14-34, EFO14, Fre10, HAE11, LMM+15, TW14b]. **Large** [BH19, Blu16, BSD16, CC19, DHB15, Kna19, MAN+14, NH15, OSBA14, PL19, SCW+18, SMLF19]. **Large-Scale** [BH19, BSD16, CC19, Kna19, MAN+14, NH15, OSBA14, PL19, SCW+18, SMLF19]. **Late** [Ano12a, DeM11]. **Latent** [TLvV13]. **Lattice** [Che14]. **Laughing** [Boo16d]. **Law** [KCD12, WK15]. **Laws** [dOdA16]. **Layer** [GRDL+12]. **Leaders** [HSF+16, MONF16, dSMdSC16]. **Leading** [Ano15-36, Ano16-50, MSS10, RH13, Ano17-52]. **Lean** [DS12, EAO12, Kee15a, MNS12, NOS12, PC12, Tho15a, VE12]. **Learn** [Ric11, WLD19]. **Learned** [BHN+10, Bal18, HR19b, Jep13, LW11, MS12, NS17, RH13, VD10, Wri11]. **Learning** [BHN14, BNW10, Bus10a, Bus10b, Car19, ES16, FLC17, HBN13, KAC+18, Kru15, LMG16, LE16, Mai12c, MHM19, Sal17, SMP15, TAJB17]. **Least** [Fai19e]. **Led** [UG18]. **Legacy** [BJ11, Bel19, FFZ+18, Joh16, KH18, SHG14]. **Legal** [CCMT16]. **Lehman** [dOdA16]. **Less** [Gor13]. **Lessons** [BHN+10, Bal18, BO17, CMM16, Jep13, KLM11, MM19, MS12, NS17, RCP+12, RH13, SHR12, SS11, VD10, Via15, Via19, Wri11, HR19b]. **Let** [Hin19, STG19]. **Letters** [Ano13c]. **Level** [FSM14, SAO+17]. **Leverage** [PDV+18]. **Leveraging** [DSTH13, EBS16, HAE11, LBL17, MRF+13, PGG+18]. **Libraries** [RNA+14, Spi12a]. **Library** [OCFLI14, RNA+16a]. **License** [Eng10, GD12]. **Licenses** [LRP11]. **Licensing** [MOMM11]. **Lichty** [Bla18b]. **Life** [Bus12b, Erd10b, Fav10, LIL+13, SJG13, PMSL14]. **Life-Cycle** [LIL+13, SJG13]. **Lifelong** [Kru15]. **Lifetime** [Shu13b]. **Lightness** [Boo14c]. **Lightning** [Hen19]. **Lightweight** [BvD10, GFPK10, Kee15b]. **Like** [Val17]. **Line** [Ano17o, HvG16, Joh10, JN10, LK10, MMYJ10, MRS10, Mor10, SNMF13, SdA13]. **Line-of-Code** [Mor10]. **Lines** [BCS10, Bos10, CdAC+16, CSC+18, FSRdA11, GFT15, dMSNRdCM+11, dOdA16]. **Linguistic** [GHV10]. **Link** [Hol16f]. **Linked** [PZ18, VD15]. **lint** [Gim14]. **Linux** [RR15]. **LISA** [Ano15-35]. **Listen** [Mav12]. **Listing** [Ano19-42, Ano19-43, Ano19-44, Ano19-45]. **Lists** [LA19]. **Lived** [CGE19]. **Living** [GVSP+17]. **Log** [MHLCL16]. **Lonely** [Boo16c]. **Long** [CGE19, SNMF13, Stu18]. **Long-Lived** [CGE19]. **Long-Term** [SNMF13]. **Longevity** [CNZC17]. **Look** [Par18, Rut16, Shu11a, Shu12b, SDSP17]. **Looking** [Ano18v, Ano19-35, Ebe15b, GMP14, Shu12e]. **Loom** [Boo12f]. **Love** [Bus10b, LW11]. **Loving** [Boo15a]. **Luddite** [Rut16]. **Lunch** [RvGH17]. **Lync** [MRF+13].

Machina [Boo13a]. **Machine**

[DPCL14, KAC+18, LE16, MHM19, Sal17, WLD19, WSE14]. **Machine-Learning** [KAC+18]. **Machine-to-Machine** [WSE14]. **Machines** [Boo15a]. **Made** [Cor13, Jep13]. **Magazine** [Ano14n, Ano19g, Ano19h, Ano19j, Ano19o, Ano19-46, Ano19-47]. **Magic** [Bud13, DD10]. **Mailing** [LA19]. **Mainframe** [VD10]. **Mainstream** [RSAT19]. **Maintain** [APPV19]. **Maintainers** [APPV19]. **Maintaining** [FSM14, GF16]. **Maintenance** [CS18, ES14, Hol16d, PT18]. **Major** [Ano16p, Ano16r, Ano16q]. **Make** [Hin19, Stu18]. **Maker** [WG16]. **Makes** [Kle16]. **Making** [AACF13, CS16, Mey18, NOS12, PL19, PSGd18, RBE19, Shu11b, SGSM10, WL12]. **Malone** [Sal17]. **Managed** [GP13, LDO+14]. **Management** [AtHR11, Ave11, Cab18, Ebe14, Fav10, GVE11, Kim19, LL16, LWCP17, Lob11, Lou11, MNS12, NOS12, PS14, RCLR18, Rei18, SMP15, Spi12d, TD12]. **Manager** [WG16]. **Managers** [Ano17p, KHD19]. **Managing** [BCS10, BH19, Bla18b, CCSW10, GD11, GGGM19, JCP19, KHYT18, LI12, MCHK17, PAB11, Pel12, PM10, RKW15, RDMA11, Shu11b, Spi16d, TSPB17, Tsa11, VMVS19, vGH15]. **Manifesto** [FKL19, Pen15]. **Manufacturing** [Ano17o, PvdHM15]. **Manufacturing-Line** [Ano17o]. **Many** [MZ13a]. **Mapped** [Hen19]. **Mapping** [GV11, Via19]. **Market** [DeM14, Sad14]. **Marketplace** [McG11]. **Marriage** [Spi18e]. **Married** [BH13]. **Mars** [Ano13d, Hol13]. **Masking** [GKD+15]. **Mass** [MS14]. **Massively** [DK11]. **Masthead** [Ano14p, Ano14q, Ano14r, Ano14s, Ano14t, Ano15s, Ano15t, Ano15u, Ano15v, Ano15w, Ano15x, Ano16z, Ano16-27, Ano16-28, Ano16-29, Ano16-30, Ano16-31, Ano17-27, Ano17-28, Ano17-29, Ano17-30, Ano17-31, Ano17-32, Ano18w, Ano18x, Ano18y, Ano18z, Ano18-27, Ano18-28, Ano19-36, Ano19-37, Ano19-38, Ano19-39, Ano19-40, Ano19-41]. **Matching** [LRP11]. **Material** [LCA17]. **Matlab** [GRDL+12]. **Matrices** [RTV12]. **Matter** [Boo16d, JWCR18, VB16, WL12]. **Matters** [Ano14u, Ano14v, Ano14w, Ano14x, BB12, Jor13, Ron16]. **Maturity** [FSM14, FRM15, GFH18, Gre17a, vWHZ+10]. **Mauchly** [Ano17f, Ano19c]. **maximize** [Sun19]. **Me** [Boo11d, Mai10b, Spi12f, STG19]. **Meaningful** [CH15c, Gre19]. **Means** [Hol18d]. **Measure** [NKR+18, Sym10]. **Measurement** [HPM16]. **Measuring** [CCC+19, KDGV13, LA19]. **Mechanisms** [RRL+17]. **Media** [BFKZ15]. **Medical** [RCLR18, ZF13]. **Meet** [CH13c]. **Meets** [BBS13b, BFKZ15]. **Member** [dSMdSC16, Ano17g]. **Membership** [Ano14l, Ano14u, Ano14v, Ano14w, Ano14x, Ano16-33, Ano16-34, Ano17-38, Ano17-35, Ano17-36, Ano17-37, Ano17-34, Ano17-41, Ano17-40, Ano18-34, Ano18-35]. **Memory** [Boo14d, Hen19]. **Memory-Mapped** [Hen19]. **Merwin** [Ano15b, Ano16b]. **Mesos** [Mey16]. **Metaphor** [KNO12, Woo15b]. **Metaprogramming** [DD10]. **Meteorologist** [Ric11]. **Method** [GD12, LI12]. **Methodologies** [ILM11, SSE12, VB16]. **Methodology** [SMN19, SS18]. **Methods** [BBC+19, FFGM13, Mey18]. **Metric** [Mor10]. **Metrics** [CM10, CMS11, Gre19, HPM16, MOMM11, vGH13]. **Microblogging** [WKS+14]. **Microservice** [RSS18, TL18]. **Microservices** [BHJ16, BDD+18, FFZ+18, JPM+18, KH18, LSCPE18, PZA+17a, PZA+17b, Tho15b]. **Microsoft** [CNSM13]. **Middleware** [BMS+14, DK11]. **Midlife** [Gre17a]. **Might** [PPMD17]. **Migrating** [FFZ+18]. **Migration** [BHJ16]. **Mileage** [vGH11]. **Miller** [Ano11b]. **Mills** [Ano17x]. **Min** [CM12]. **Mind** [TJC+19]. **Minds** [Boo13b].

Minecraft [Boo13b]. **Mining** [APPV19, CH15b, Hol19b, Ker18c, LAAN10, Men13, vGMRW14]. **Minute** [Whi12]. **Miracle** [Boo15f]. **Missing** [Kna19]. **Mission** [CCD^{+}17]. **Mission-Critical** [CCD^{+}17]. **Mistakes** [Jep13, SMP15]. **Mitigation** [BMSS18]. **MLOC** [TS11]. **MobiGUITAR** [AFT^{+}15]. **Mobile** [AFT^{+}15, Ano14-30, Ano14-31, BMS^{+}14, Bou10, BCN16, CM19, CPB^{+}17, Dig15, EAG^{+}14, GFT15, GE11, GAM^{+}17, GMB^{+}14, KSNH15, LXC15, MHJ17, MAN^{+}14, RMM^{+}12, RNA^{+}14, RNA^{+}16b, Sad14, See12, SJ15, SHG13, Shu12b, TS12, VMvG12, ZCLL19]. **Mobile-App** [BCN16, RNA^{+}16b]. **Mobile-centric** [GMB^{+}14]. **Mobility** [Shu14f]. **Model** [AGK^{+}19, AFT^{+}15, CFF^{+}13, CCD^{+}17, CR11, DDIP15, DIP12, FSB^{+}12, FFGM13, GCH13, GMB^{+}14, HR11, KCK^{+}13, LDO^{+}14, MHF17, RSS18, Rie11, SJG13, Sch12, Shu11a, Til16b, WHR14, ZP11]. **Model-Based** [AGK^{+}19, AFT^{+}15, FSB^{+}12, FFGM13, MHF17, Sch12]. **Model-Driven** [CFF^{+}13, CCD^{+}17, DDIP15, DIP12, LDO^{+}14, RSS18, WHR14, ZP11]. **Modelica** [HAE11]. **Modeling** [Ano16-32, BDD^{+}14, Che14, CMC^{+}12, DBRV18, ILM11, MCHK17, MBv18, PSGd18, Vol11, ZML^{+}12]. **Models** [CSC^{+}18, HBB^{+}11, HR11, KSTS17, LvdH16, LMG16, LRP11, OT11, Pop11, RDMA11, TAJB17, vWHZ^{+}10]. **Modern** [Til15]. **Modernization** [CM10, KH18, Sdd^{+}18]. **Modular** [Stu18, VWK15]. **Modules** [Bla18a, KE10]. **Money** [SJ15]. **Monitor** [GVSP^{+}17, Tou11]. **Monitoring** [HGS15, Mai13a, VRG16, ZK10]. **Monolithic** [BDD^{+}18]. **Montezuma** [Shu11b]. **Mood** [BSW19]. **Moods** [GWA14]. **Moore** [WK15]. **Moral** [GD11]. **Morris** [Joh17]. **Most** [Osb11]. **Motivations** [LvdH16]. **Moving** [Ano15q, Ano15r, Lou10]. **MRI** [HvdL10]. **MSDN** [BBS13b]. **Much** [SMS^{+}14]. **Multi** [Ano15-36, Ano16-50, Gun10, Ano17-52]. **Multi-Core** [Ano15-36, Ano16-50, Ano17-52]. **Multi-DSL** [Gun10]. **Multiagent** [WG10]. **Multicore** [KV11, LNH^{+}11]. **Multidimensional** [Ano17p]. **Multimedia** [Bou10]. **Multinational** [AHMS18]. **Multiparadigm** [Gho10, WC10, WCFG10]. **Multiplatform** [ZKB^{+}16]. **Multiplayer** [DK11]. **Multiple** [HHLJ10, SRI14]. **Multitenancy** [FFZ^{+}18]. **Multiterabyte** [KB12]. **Multithreaded** [BBdH^{+}11, FTP11]. **Multitier** [ABB^{+}15b]. **Must** [BWD^{+}17, BS15, HR19b]. **Mutation** [Als13, RPFA^{+}14, UM10]. **My** [Boo15d, Kri17, WGC^{+}13]. **myCS** [Ano17-33, Ano18-29, Ano18-30, Ano18-31, Ano18-32, Ano18-33]. **Myth** [Bud13, LR12, Nic19]. **Mythical** [ADSS18]. **Myths** [HO15].

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Object [GTS10, GS11, Hof10, RRL+17, Via19]. **Object-Oriented** [GTS10, GS11, Hof10, RRL+17]. **Object-Relational** [Via19]. **Objects** [SJ13]. **Observations** [CMC+12]. **Obstanovka** [NBS+16]. **Occurs** [Boo15f]. **Ocean** [HJ17]. **October** [Shu11f]. **Office** [TS11]. **Offs** [SM10a, Sym12]. **Offshoring** [SvS16]. **Often** [BCMN13, MM19]. **Oh** [LC11]. **On-Board** [Tsa11]. **On-Premise** [BKB12]. **Onboard** [BBP+16]. **Onboarding** [FGBM14, STG19]. **Once** [Boo16e]. **One** [Ano17-41, Ano17-40, Ano18-34, Ano18-35, BBC+19, Boo15c, Bus12a]. **One-Click** [BBC+19]. **Online** [BO17, DK11, Hol19a, ZXL+16]. **Only** [AMK16, Shu13e]. **Open** [AtHR11, ACHC11, CCSW10, Eng10, FGBM14, GD12, HR11, ILM11, LRP11, LKR16, MTM+19, MFS15, MOMM11, RCP+12, RSAT19, Sca19, SvGH15, Spi11b, STG19, SF15, WKS+14, dBLMT11]. **Open-Data** [LKR16]. **OpenStack** [IHSR19]. **Operating** [Tor15]. **Operational** [BNW10, MHLCL16, PLC19, Woo16b]. **Operational-Log** [MHLCL16]. **Opinion** [SAT14]. **Opinions** [DZB18]. **Opportunistic** [KLM11, MT19]. **Opportunities** [SA19, TD19]. **Optimica** [HAE11]. **optimizes** [Sun19]. **Options** [Ano16-33, Ano16-34, Ano17-38, Ano17-35, Ano17-36, Ano17-37, Ano17-34]. **Orchestration** [Spi14d]. **Order** [Boo15b]. **O'Reilly** [Tho15a]. **Organization** [AHMS18, FSM14, PL19, SCW+18]. **Organizational** [PDNdSB12, VB16]. **Organizations** [BO17, LOCPL16, Lat12, SMLF19, SF15]. **Orientation** [LK10, LMSS11]. **Oriented** [GTS10, GS11, Hof10, LR12, MBLN10, MGMS11, MH14, RRL+17, RSH12, SHG14, Zam17]. **Original** [HR19a]. **Orthogonal** [CT11]. **Other** [Bus10a]. **Our** [Boo15c, CHDK+16, HBCH14, LC11, LTv19, Mai13a, Ozk19a, Ris10b, Shu14d, SMP15, Spi15b]. **Ourselves** [Boo14e]. **Outdoors** [GVSP+17]. **Over-the-Air** [VOGB18]. **Overcome** [Hol19a]. **Overflow** [ASR17, SB16]. **Overload** [Hol19c]. **Overlords** [Boo15c]. **Overly** [LCH17]. **Overrated** [BBN+17]. **Oversight** [Roz15]. **Overview** [MG17, PTV+10]. **Ownership** [BH19, EM15]. **Oxymoron** [Boo10a]. **Oz** [Boo13c].

Package [Spi12d]. **Pages** [FS12]. **Pain** [FWK+15]. **Pair** [Ano10c, SMAU16, Wra10]. **Palm** [Ano15f, Ano17l, Ano18h]. **Panel** [MF13]. **Papers** [Ano14b, Ano14i, Ano14-34, Ano15e, Ano15d, Ano16n, Ano15c]. **Paradigm** [KC16, VGD19]. **Paradigms** [Bus10c, DD10, HHLJ10]. **Parallelisation** [GS11]. **Parallelism** [Dig11, PSK11]. **Parallelizing** [VM12]. **Parlog** [Bla18a]. **Part** [BH10a, BH10b, Bus10a, Bus11a, Bus11b, Bus11e, Bus11f, HBS17a, PZA+17a, PZA+17b, Wat18a, Wat18b, Bus10b]. **Participation** [CMY17]. **Participatory** [CPP16]. **Partners** [EJ12]. **Partnership** [KHD19]. **Partnerships** [CH15c]. **Passing** [Erd10d, Shu14e]. **Past** [Boo16f, Obr17]. **Pat** [Sal19]. **Patch** [SCB15]. **Path** [Dör18]. **Pattern** [HA11, HWBYZ13, TEvdHP12]. **Pattern-Based** [HA11, TEvdHP12]. **Patterns** [Bud13, LLC12, MM19, PAS10, Ris10a, ZPHW16]. **Pay** [Bus11d]. **PC** [Gim14]. **PC-lint** [Gim14]. **Peaceful** [FCS+10]. **Peaks** [CHHSM13, MCH13]. **Peer** [Gau13, RCP+12]. **People** [CCWP11, EP17b, GMB+14, Hod13]. **Perceive** [HMPS16]. **Perceptions** [BSW19, SMAU16, SS18]. **Perfect** [Ano17k]. **Perfectionists** [Shu11c]. **Performance** [Ano18-37, Ano18-38, DS13, DFD+16, GWA14, HKR11, LXC15, MRF+13, OCFLI14, PSO12, RVT18, Sym10, TJC+19, Sun19]. **Performitis** [Bus10a]. **Perils** [Ebe18]. **Persistence** [Boo14d]. **Persisting** [Via19]. **Persona** [CH13c]. **Persona-Driven** [CH13c]. **Personae** [CH14b]. **Personality** [MAGT19]. **Personalized** [BFKZ15]. **Perspective** [Ano17p, CCC+19, EKP16, Kna19, KDM+19, KCD12, MSSMDC14, RSS18, SSS15a, Spi15a, TVS10]. **Perspectives** [BBS13b, BB10, BKCF14, EM15, FCS+10, PLTC16, PLC18, SWA17]. **Pervasive** [Ano16-40]. **Peter** [Her17]. **Philae** [BBP+16]. **Philaes** [Bal18]. **Phillips** [And16]. **Phone** [TS12]. **Phones** [Bou10]. **physical** [BMSS18, RCLR18]. **Pick** [BE11a]. **Pick-Up** [BE11a]. **Picture** [Boo11d]. **Piloting** [BCN16]. **Pipeline** [GWLY11]. **Pipelines** [WZX+16]. **Pitfalls** [GLA14]. **Pivot** [BWD+17]. **Plan** [Whi12]. **Planned** [SNMF13]. **Planning** [FSB+12, LIL+13]. **Platform** [BSS+17, CCS+11, CNSM13, HCF+15, KR10, LDO+14, SHR12, TS12, Til15]. **Platforms** [GE11, JCP19, PBE14, ZMP+16]. **Play** [Ris12c, MSAH17]. **Playing** [Ano13e]. **Plug** [KR10]. **Plug-Ins** [KR10]. **Point** [GE12, GWP+11, HR11, KvdL10, VE12, WK11, WES10]. **Point/Counterpoint** [GWP+11, HR11, KvdL10, VE12, WK11, WES10]. **Points** [HBS17a, HBS19, Hol15e, NCK11, PDV+18]. **Police** [Shu12c]. **Policy** [CCMT16].

Politics [Mai12d]. **Portability** [Spi13d]. **Positive** [LA19]. **Possibility** [Boo13e]. **Potion** [DD10]. **Power** [AVF19, DeM13, Hod13, LBL17, PCP14, Woo16a]. **Powering** [WAA+12]. **Practical** [GJO+18]. **Practice** [ABB+15a, BW14, DMG14, Gre18a, Gre18b, GGGM19, KDL17, KNO12, KDM+19, PMSL14, PZA+17a, PZA+17b, RKTS12, WG16, WHR14, ZP11, ZHD+13]. **Practices** [FWK+15, GLA14, Jor19, MGS+18a, MMYJ10, MCL12, MSSMDC14, Sca17, Spi18b, SF15, ZBCS16]. **Practicing** [Gha14]. **Practitioner** [PZTF12, PLC19]. **Practitioners** [FS10, LCA17, LTS12, MCBT13, PLTC16, PLC18, ST10, SS18]. **Pragmatic** [Fai19d, Kee15a, Woo14b, WF18]. **Preach** [Gha14]. **Predict** [WLD19]. **Predictable** [BBdH+11]. **Prediction** [HBB+11, LMP16]. **Predictions** [HKR11, Ker18b]. **Predictive** [Ano16-40, CSC+18]. **Premise** [BKB12]. **Prepare** [Ano17-44, Ano17-42, Ano17-43, Ano18-36]. **Preparing** [BCB+17]. **Presentations** [Ano15-32]. **Preserving** [SB16]. **Pressure** [Ano16-49]. **Prevention** [WMM18]. **Pricing** [BA10]. **Prince** [LMP16]. **Principal** [CSS12]. **Principle** [Fai19e]. **Principled** [CVEK13]. **Principles** [BW17, DFD+16, SPA11, Woo16a]. **Printing** [Ano14z, Ano15y]. **Prioritization** [CH15a, SAO+17]. **Privacy** [BFKZ15, Bre14, GK15b, HPM16, Pel12, Ano14m, Ano15o, Ano19i, Ano19j, Ano19-46, Ano19-47]. **Privacy-Enhancing** [Pel12]. **PriView** [BFKZ15]. **Probabilistic** [FN14, RCLR18]. **Probing** [CPP16]. **Problem** [Fai19b, Gla12]. **Problems** [MNS12, MTM+19]. **Process** [CPP10, CCWP11, DeM13, GVE11, GFH18, GFPK10, Jun18, KC16, LOCPL16, MS14, MSSMDC14, PM10, Shu12c, SSS15b, UG18, vWHZ+10, vGMRW14]. **Processes** [ABC+11, BMDK15, Erd10a, HM13].

Processing [DFFP18, FDE+17, WZX+16, ZXL+16]. **Product** [BCS10, BH19, Bos10, CdAC+16, CSC+18, Ebe14, EBS16, FSRdA11, GFT15, GFPK10, Joh10, JN10, KUG18, LK10, LX17, MNS12, MMYJ10, MRS10, dMSNRdCM+11, Rei18, SNMF13, SdA13, SW11a, ZF13, dOdA16]. **Product-Development** [EBS16]. **Productivity** [Nic19]. **Professional** [ABH+11, BvdHOP12, Boo12d, NYMS12, Som16, SMAU16]. **Professionals** [Spi16f, Uit13]. **Profiles** [GMB+14, KHD19]. **Program** [RLBR12, SGSM10, ZKB+16, ZK14]. **Programmable** [TM17]. **Programmer** [Nic19]. **Programmers** [Bla18b, Boo10d, Car19, PHAH16, Ris10c]. **Programming** [Ano10c, Ano14-34, CT13, CSS11, FTP11, Hof10, KV11, Mey14b, PB16, SEM14, SMAU16, Til16b, TW14b, Vol11, WC10, WCFG10, Wra10]. **Programs** [BH17, GS11, Hol17b, Hol17d, YLK+17]. **Progress** [Amo18, Ebe18, Erd10e, Erd10f]. **Progression** [Shu14c]. **Progressive** [BBdH+11]. **Project** [Ano17p, Fav10, Jor19, MCH15, MCL12, MS12, NCK11, SMP15, Sym12, VB16]. **Projecting** [VWK15]. **Projects** [Ano12a, BH19, Blu16, BSD16, CCSW10, DHB15, DeM11, FGBM14, MJZCH13, MFS15, MCBT13, STG19, ZSMP17]. **Promised** [TD19]. **Properties** [Roz15]. **Proposals** [FGBS10]. **Protection** [CT11, FCAJ11, Li14, Shu11d]. **Proteus** [BBB+19]. **Prototyping** [CKH16, HCF+15]. **Providers** [Fab10, Jor16]. **Providing** [GMB+14]. **Provisioning** [BMR14]. **Prowl** [CH16b]. **Psychology** [TBvRB12]. **Publications** [Ano16-35]. **Publishing** [Cab18]. **Purpose** [PTNF+19]. **Pursuit** [VBP17]. **Putting** [Haz10, Off13]. **Python** [RO15].

Qualitative [BHG13]. **Qualities** [HSEG10]. **Quality** [BKCF14, Bus10d, BAA+12, CYM+15, CPP16, Car19, DHB15, FV19, GF16, HMPS16, HBCH14, HL11, KHYT18, LMG16, LSCK12, PS14, RLBR12, SM10a, Spi16e, SSS15b, ZK10]. **Quantifying** [SJS12]. **Quantitative** [TD12]. **Quest** [Gre19]. **Question** [Boo14f, SB16]. **Questions** [Boo14a, CPP16, FS10, Hol16c]. **Quoins** [CH13d]. **Quotes** [Obr18].

R [LA19]. **Race** [KC16]. **Racing** [CMS11]. **Radio** [Blu19]. **Railway** [FFGM13]. **Randomly** [Hol17c]. **Range** [Tor15]. **Rapid** [SCB15]. **Rare** [AGIF17]. **Rate** [vGH12]. **Rating** [RNA+16b]. **Ratings** [KNH16, RNA+14]. **Rationales** [TSPB17]. **Raw** [MCH15]. **Raynaud** [Car17a]. **RE** [DHH+19, Gre17a]. **Reach** [Spi15b]. **Reactive** [DSM+18, Til16b]. **Read** [Ano16-35, SCC11]. **Ready** [BWD+17]. **Real** [LDO+14]. **Real-Time** [LDO+14]. **Reality** [LR12, PZA+17a, Pra17]. **Really** [ASP13, Ano10c, Erd10c, KT18, Wra10]. **Reasoner** [VD15]. **Rebecca** [Ano10b]. **Recognition** [Ano16v, DPCL14]. **Recognizing** [Ano18-37, Ano18-38]. **Recollections** [EM18]. **Recommendation** [RWZ10]. **Recommendations** [CC19]. **Recommender** [CPB+17]. **Reconsidered** [Bus13]. **Reconsidering** [Nag18]. **Recruiting** [Spi15e]. **Redirections** [PM18]. **Reducing** [AKN+16]. **Reduction** [UM10]. **Redux** [Spi17e]. **Reengineering** [Bus11b, CPS18, PCdGPE11]. **Refactor** [Fai19c]. **Refactoring** [BS15, Bus11a, Dig11, Dig15, GRD11, GO15, HO15, LML+15, MHRSO15, PCP14, Sdd+18, SSS15a, SGSM10, Spi12e, Via15, Zim15]. **Reference** [PvdHM15, WE16]. **Reflect** [CH16a]. **Reflecting** [BHS+14, Spi16e]. **Reflection** [BHN14, NYMS12]. **Reflective** [BW14, DMG14, PMSL14]. **Regress** [Erd10e]. **Regression**

[CCMT16, Shu14c, SAO$^+$17]. **Reins** [Erd10d]. **Relational** [Via19]. **Relationship** [BBB$^+$18, KNH16]. **Relationships** [Jor19]. **Relative** [Jor13, KE10]. **Release** [ABB$^+$15a, MM19, RR15, Spi15f, Spi18b, ABB$^+$18]. **Releases** [MFS15, SCB15, ZXT$^+$15]. **Reliability** [KCK$^+$13, LBWX17, Spi17e]. **Reliable** [Hol15a, ZXT$^+$15, Hol14]. **Remembering** [Ano11b]. **Remembrance** [Boo16f]. **Remote** [CT11]. **Renewing** [Fav10]. **Repair** [SEK$^+$19]. **Repairing** [LW11]. **Replacement** [CT11]. **Replicating** [AGIF17]. **Report** [BDD$^+$18, EV10, GTS$^+$19, IHSR19, PT18]. **Reports** [NHM19, ZCLL19]. **Repositories** [DDIP15]. **Repository** [APPV19]. **Repository-Mining** [APPV19]. **Reproducibility** [Hv19]. **Reputation** [ORM$^+$17]. **ReqIF** [EJ12]. **Requirement** [PRRT14]. **Requirements** [AACF13, dSAPW$^+$14, BBC$^+$16, BB17, Bre14, Car17b, CMP17, CBN13, CH13c, CH13b, CH13d, CHHSM13, CH14a, CHL14, CH15b, CH16a, Coo10, DFFP18, DHB15, DeM13, DHH$^+$19, EJ12, FC19, FB15, FV19, FWK$^+$15, Fer18, FDE$^+$17, FGBS10, GM11, GCH13, Gre17b, Gre18a, Gre18b, Gre19, GSA$^+$17, Kna19, LCH17, MNJR16, MBLN10, MJ10, Mai11b, MW11, Mai12b, Mai12c, Mai12e, Mai13a, Mai13b, MG17, NBF$^+$18, Pen15, RSH12, SM10a, Shu13a, SHR12, SM10b, TD19, TSPB17, TEvdHP12, VRG16, VGD19, WCG16, dGNA$^+$11]. **Requirements-Driven** [MBLN10]. **Requirements-Engineering** [Fer18, Gre18a, TD19]. **Research** [BBB$^+$18, BBN$^+$17, DFD$^+$16, Fer18, FS10, GJO$^+$18, GO15, HBB$^+$11, LMP16, MF13, SPA11, SCL18, She15, Shu12f, TD19, VD10]. **Researchers** [MM18a]. **Resilience** [Sal19]. **Resource** [KSW10, NPJ19]. **Resources** [Ano16w, Ano17y, PZ18, Shu11c]. **Responders** [BBG19]. **Responding** [MSAH17]. **Response** [PGG$^+$18, WMM18]. **Responses** [Ano10c, LA19, NHM19]. **Responsibility** [BWC10, CH16a, Spi17c]. **Responsibility-Driven** [BWC10]. **Responsiveness** [OSBA14]. **Resting** [PZ18]. **Result** [She15]. **Results** [DFD$^+$16, Jor19]. **Retrofit** [Ron16]. **Retrospective** [GO15, Kri17, MM13, MCBT13, Spi18c]. **Retrospectives** [Ter11]. **Return** [Woo14b]. **Reusable** [LWCP17, Zim11]. **Reuse** [KLM11, MT19, MAN$^+$14, SJ13]. **Reveals** [Fai19b]. **Reverse** [SSE12, VD10]. **Reverse-Engineering** [SSE12]. **Review** [Gau13, RCP$^+$12, TD19]. **Reviewers** [Ano10a, Ano13a, Ano14a, Ano15a, Ano16a, Ano17a, Tay18]. **Reviewing** [MGS$^+$18a]. **Reviews** [Boo10c, CCH$^+$15, Fai19a, HA11, MSAH17, vHEA$^+$14]. **Revisited** [Bal18, BAA$^+$12, KCD12]. **Revisiting** [JWCR18]. **Rework** [Mor10]. **Rewrite** [Fai19c]. **Rewriting** [BJ11, Bus11b]. **Rich** [KR10]. **Richard** [Ano15b, Ano16b]. **Right** [CS16, Hol17c, Ano16c, Ano17e, Ano17d]. **Rights** [GD11, LL16]. **Rigorous** [BBB$^+$11]. **Rise** [EV10, HSG18]. **Risk** [Ano16-41, BA10, BMSS18, FN14, LCH17, Poo14, PS14, RCLR18, Wat18a, Wat18b]. **Risk-Based** [Ano16-41, PS14]. **Risks** [ES16, GM10, PM10]. **Road** [KAC$^+$18, LMM$^+$15, SA11, Shu11e]. **Roadmap** [TM17]. **Roads** [LMP$^+$15]. **RoboPlatform** [LTv19]. **Robot** [PB16]. **Robotic** [MHJ17, VOGB18]. **Robotics** [AGK$^+$19]. **Robots** [LTv19]. **Robust** [XYCW18]. **Rock** [Ano14-27, Ano14-28, Ano14-29, Ano14-30, Ano14-31, Ano14z, Ano15z, Ano15-27, Ano15y, Ano15-28, Ano15-29, Ano15-31, Ano16x, Ano16-37, Ano16-36, Ano16-39, Ano16-38, Ano16-40, Ano16-41]. **Role** [Ano16-42, EP16, HOZZ16, Sha12, Spi16b, TKF16, WG16]. **Roles** [LKR16]. **Ron** [Bla18b]. **Room** [Hv19]. **Roundtable**

[ABB$^+$15a, HHR$^+$13, HSF$^+$16, LRB$^+$15]. **Routes** [CPB$^+$17]. **Routines** [CSS11]. **Rover** [Ano13d]. **Ruby** [Gun10]. **Rules** [MZLD12]. **Run** [MTT$^+$15, Stu18]. **Run-Time** [MTT$^+$15]. **Rundeck** [Spi14d]. **Runtime** [BBB$^+$19, LW11, MSS10, OCFLI14].

SaaS [BKB12]. **SaaS-Based** [BKB12]. **Safe** [MOK$^+$18, SRI14]. **Safer** [SGSM10]. **Safety** [dSAPW$^+$14, BMSS18, CCP$^+$18, CH17, Ebe15a, FSB$^+$12, KSTS17, LCF13, MJZCH13, MG17, PRRT14]. **Safety-Critical** [CCP$^+$18, KSTS17, LCF13, MJZCH13, MG17]. **Salary** [Bla17]. **Same** [Ano12a, BB17, DeM11]. **Sanity** [BvD10]. **SASSY** [MGMS11]. **Satellite** [CMC$^+$12]. **SATURN** [ZK14, Kee15b]. **Savings** [FC19, SCW15]. **Say** [LTS12]. **Scalability** [DLR10]. **Scalable** [DSM$^+$18, VAC$^+$17]. **Scalable-Application** [VAC$^+$17]. **Scale** [BW17, BH19, BSD16, CC19, DFP19, Fai19f, Kna19, MAN$^+$14, NH15, OSBA14, PL19, SCW$^+$18, SMLF19, Ozk19d]. **Scaling** [EP17a, Kim19]. **Scanners** [HvdL10]. **SCEPYLT** [CH13a]. **Scheduler** [RTV12]. **Science** [BJ11, EEBB11, EHMFT19, Gla12, MIC19]. **Scientific** [KTH11, MS12]. **Scoping** [Joh10]. **Scorecard** [Spi13b]. **Scrapheap** [KLM11]. **Screen** [BDD$^+$14, GKD$^+$15]. **Screen-Based** [BDD$^+$14]. **Scripting** [SRI14]. **Scripts** [GF16]. **Scrum** [SJS12]. **ScyllaDB** [Sun19]. **Seamless** [EJ12]. **Search** [Ano14d, Ano14c, Ano16g, Ano16f, Ano17q, Fav12, GV11, Ano15g]. **Searching** [And12, Joh13]. **Secret** [Mar12]. **Secure** [Ano17-39, DBRV18, LDO$^+$14, MOK$^+$18, PST$^+$17, WCG16]. **Securing** [SA19]. **Security** [Amo18, Ano14m, Ano15o, Ano16-38, Ano16-41, Ano19i, BMSS18, CM19, GP13, GK15b, HPM16, McG11, PRRT14, SS17, WMM18, Ano19-46, Ano19-47]. **See** [HBS17b]. **Seeing** [Erd10e]. **Seeking** [PZ15]. **SEI** [ZK14]. **Selection** [Jor16]. **Self** [BBB$^+$19, GFT15, GGGM19, MGMS11, Spi18d, WG10]. **Self-Adaptation** [WG10]. **Self-Adapting** [GFT15]. **Self-Adaptive** [BBB$^+$19]. **Self-Architecting** [MGMS11]. **Self-Evolving** [Spi18d]. **Self-Managing** [GGGM19]. **Semi** [SEK$^+$19]. **Semi-Autonomic** [SEK$^+$19]. **Sense** [Mey18]. **Sensor** [ESZ15, MKD14]. **Sensors** [MKD14]. **Sentiment** [CCP$^+$18, MHM19, NS19, WLD19]. **Separation** [GHV10]. **Sequential** [Erd10a]. **Seriously** [Kie10]. **Serverless** [Bha18]. **Service** [And16, Ano15b, ABC$^+$11, AIT15, Fab10, GD11, GMB$^+$14, LK10, LMSS11, LR12, MBLN10, Mai10a, MGMS11, MH14, PZA$^+$17a, PZA$^+$17b, RMM$^+$12, See12, SHG14, SGH15, Spi14d, Ano16b]. **Service-Based** [ABC$^+$11, GD11]. **Service-Orientation** [LK10]. **Service-Oriented** [LR12, MBLN10, MGMS11, MH14, SHG14]. **Services** [Ano19-54, CSS11, FMMP16, HCF$^+$15, PAB11]. **Serving** [Spi16f]. **Seymour** [Ano18-37, Ano18-38]. **Shared** [Boo10b]. **Shareholder** [Con12]. **Sharing** [Bre14, CMC$^+$12, LL16, Rie11, Shu13f, SRI14, SMLF19]. **Shepherding** [TKF16]. **Shift** [KC16, VGD19]. **Shipping** [vdBB17]. **Shirt** [Spi13d]. **Short** [FS12, SA11]. **Shot** [LML$^+$15]. **Should** [HR11, MFS15, Ris10c, Woo17]. **Show** [HBB$^+$11]. **Side** [Bri12]. **Sidney** [Ano18-37, Ano18-38]. **Sigelman** [Blu19]. **Sigil** [DeM14]. **Significant** [CBN13, CH13c, CH13d]. **Silver** [Mar12, Ozk19a]. **Similar** [LC11]. **Simple** [MPD14]. **Simply** [Gla12]. **Simulation** [ADH14, GTS$^+$19]. **Simulation-Based** [ADH14]. **Sin** [HR19a]. **Single** [Gat16]. **Sinha** [Rei18]. **Size** [ES14, Jor19, NCK11]. **Skepticism** [RSAT19]. **Sketch** [CM12]. **Sketchifying** [Obr13]. **Skill** [Kri17]. **Skills**

[Car19, IML16]. **Skirted** [Pra17]. **Small** [Boo11b, EBS16, FSM14, LMMO18, LOCPL16, RVB13]. **Smaller** [KE10]. **Smart** [BCN16, CPB+17, LLV16, MTT+15, PvdHM15, SWB+17, Spi17a]. **Smarter** [Ano18g]. **Smartphones** [HLS17]. **Smells** [GKF19, TL18]. **SOA** [GLA14]. **Social** [Ano19-34, BBS13a, BBS13b, CH16a, DHH+19, Li14, MTM+19, MCD19, PSGd18, Shu13d, Spi17c, TLvV13, TBvRB12, ZWGY12, CSS13]. **Society** [Ano17x, Ano14l, Ano16t, Ano16u, Ano16x, Ano16p, Ano16v, Ano16r, Ano16q, Ano16s, Ano16w, Ano16o, Ano17y, Ano18p, Ano18q, Ano18t, Ano18r, Ano18s, Ano18u, Ano19y, Ano19z, Ano19-27, Ano19-28, Ano19a, Ano19b, Ano19-29, Ano19-30]. **Sociological** [GMB+14]. **Software** [ASP13, AtHR11, AS17, AGK+19, AGIF17, ABB+15b, AVF19, Amo18, And15, Ano14-32, Ano14-33, Ano14-34, Ano15n, Ano15-30, Ano16-42, Ano16-43, Ano17c, Ano17m, Ano17p, Ano17b, Ano17z, Ano18c, Ano18d, Ano19j, AMK16, ABH+11, AHMS18, APPV19, AKN+16, ACHC11, BCS10, BHN14, BvdHOP12, BBP+16, BZd18, BBB+19, BCLP15, BJ11, BBB+18, Bas18, BCD+17, BCB+17, BBS13a, BBS13b, BDH+19, BA10, BMR14, BMM14, BBM+15, BBG19, BMSS18, Bla17, BSW19, Blu19, BNW10, Boo14c, Boo18, Bos10, BCH15, Bos16, Bou10, BKCF14, Bri12, BBN+17, BSD16, Bro19, Bro18, BMSF15, BW14, BHH13, BH10a, BH10b, Bus11e, Bus11f, CE19, CR14, CMM16, Cap14, CYM+15, CSC+18, CP18, CPS18, CS18, CS19, CM19, CT11, CCSW10, Cle10, CR11, CMC+12, CSS11, CNSM13, DeM14, DZB18, DDIP15, DFD+16, DvGvS14]. **Software** [DMG14, EEBB11, EAO12, ES14, Ebe14, EHS15, EKP16, EF17, EC17, Ebe18, EHMFT19, EBS16, ES16, EP17b, Erd10b, Erd10e, EM18, EMP18, EFO14, FCAJ11, FLC17, FCS+10, FWS19, Fav10, FP11, FN14, FKL19, FRM15, FP13, FCN16, FSRdA11, GFT15, GD11, GRDL+12, GF17, GFH18, GFKY18, GTS+19, GKF19, GMP14, GUP+14, Gim14, GBICMR13, GFPK10, Gor13, GK15a, GBM16, GM10, GWA14, GO15, GKKL12, HMPS16, HOBK17, HKR11, HHR+13, HvG16, HPM16, Haz10, HKB16, HSF+16, HJP16, HL11, HSG18, HvdL10, HOZZ16, Hol19a, Hol18c, HV16, IGBKR19, JCP19, Jep13, Joh15, JEJ12, Joh13, JWCR18, JN10, Jor13, Jor14, Jor16, Jor19, Kaa14, KDL17, Kee15b, KTH11, Ker18b, Ker18d, KAC+18, KCK+13, KUG18, KUG19, KH18, KLM11, KHD19, KDM+19, LvdH16, LAH10, LC11]. **Software** [LEPV10, LCE13, LMP16, LMMO18, LCF13, LOCPL16, LCFT17, LWCP17, LSZ18, LIL+13, LBL17, LSCK12, LDBF19, LTS12, LRP11, LRB+15, MNS12, MF13, MTM+19, MM18a, MS14, McG11, MMYJ10, MCL12, MGS18b, MAGT19, dOMFP16, MGFRD10, MCD19, MZ13a, MZ13b, MZ18, Men18, MZLD12, MDOS11, MT19, MCBT13, MRS10, MAN+14, MSSMDC14, MHF17, Mor10, MS12, Mos10, MBv18, NYMS12, NPJ19, dMSNRdCM+11, NOS12, NS19, NS17, NCK11, Obr13, ORM+17, Off13, OSBA14, Ozk19b, Ozk19c, PHAH16, Par18, PZ18, PTNF+19, Pec13, PBE14, PDV+18, PWF+19, PGG+18, PST+17, Pop11, PC12, PT18, PS14, PAS10, PPMD17, RVB13, RWZ10, RSAT19, RPE19, Ron16, RBE19, Rou12, RDMA11, RSH13, Rut16, RvGH17, Sdd+18, SM10a, Sca17, SA19, SA11, See12, Shu11a, Shu11b, SCC+16, SMS+14, SMP15, SW11a, SW11b]. **Software** [SCW15, SV16, SWB+17, SHR12, SCB15, Spi10c, Spi12b, Spi13e, SAT14, Spi16b, Spi16d, Spi17b, Spi17f, Spi17d, Spi17e, Spi17c, Spi18a, Spi18d, SLB17, SMAU16, SSS15b, Sym10, Sym12, TM17, TLvV13, TvV12, TYXL16, TBvRB12, TVS10, Ter11, TI11, Tor15, Tsa11, Uit13, Val17, VSB+16, VM12, VBP17, VB16, VMvG12, VMVS19, WKS+14, WK15, Whi19, Woo16c, YFMH18, Zam17, ZMP+16, ZSMP17, ZBOC12, ZK10, ZHD+13, ZCLL19, Zim15, dSMdSC16, dMHSC16, dOdA16, dBLMT11, vGH10, vGH11, vGH12, vGH15, vWHZ+10, Ano14n, Obr17, Som16, Ano19o, Obr18, Spi18f]. **Software-Crowdsourcing** [ZSMP17]. **Software-Defined** [PGG+18]. **Software-Development** [FRM15]. **Software-Driven** [EHS15]. **Software-Engineering** [Spi17d]. **Software-Intensive** [GFPK10, KUG18]. **Solicited** [Ano18-37, Ano18-38]. **Solution** [Fai19b, Gat16, Kri17]. **Solutions** [BBM18, BKB12, MNS12, MHLCL16, SSS15a, SWB+17]. **Solving** [MTM+19]. **SORE** [Ale11]. **Sorrow** [Boo12f]. **Soul** [Boo11e]. **Source** [AtHR11, ACHC11, Bro19, CCSW10, Eng10, FGBM14, FFZ+18, GD12, HR11, LRP11, MTM+19, MFS15, MOMM11, Rie11, RCP+12, RSAT19, Sca19, Spi11b, STG19, SF15, WKS+14, dBLMT11]. **Space** [KSTS17, NBS+16, SS11]. **Spacecraft** [Hol13]. **Spaces** [DvGvS14, Sha12]. **Spam** [HJ17]. **Specific** [Fre10]. **Specification** [SSE12]. **Specifications** [ASK14]. **Speech** [DPCL14]. **Speed** [Bos16]. **SPI** [PDNdSB12]. **SPLASH** [MF13]. **Spocks** [Mai12e]. **Spoken** [CCMT16]. **Spoofax** [WKV14]. **Spot** [Ano14-35]. **Spotify** [SMLF19]. **SQALE** [LI12]. **Squared** [GV11]. **Stabilization** [RR15]. **Stack** [ASR17, BBS13b, SB16]. **Stacks** [Lou16]. **Staff** [Ano19-42, Ano19-43, Ano19-44, Ano19-45]. **Stage** [DD12]. **Staged** [SNMF13]. **Stakeholder** [LAH10, TVS10]. **Stakeholders** [CH16b, SR16]. **Standards** [Ano17i, Ano18f, FSB+12, LMMO18, LDBF19]. **Star** [Spi15e]. **Stars** [Ano14-27, Ano14-28, Ano14-29, Ano14-30, Ano14-31, Ano14z, Ano15z, Ano15-27, Ano15y, Ano15-28, Ano15-29, Ano15-31, Ano16x, Ano16-37, Ano16-36, Ano16-39, Ano16-38, Ano16-40, Ano16-41]. **Start** [BWD+17, KUG18, KUG19]. **Start-Ups** [BWD+17, KUG18, KUG19]. **Startup** [Ano15-31]. **Startups** [GUP+14, LMMO18]. **Stasis** [Shu14c]. **State** [BCLP15, HOBK17, KDL17, KSTS17, Lob11, Spi17f, WHR14]. **State-of-the-Art** [Spi17f]. **State-Space** [KSTS17]. **Statefulness** [FFZ+18]. **Static** [PTV+10]. **Statistical** [KCK+13]. **Statistics** [LE13]. **Status** [GE11]. **Stay** [Ano16-44]. **STC** [Ano15-32]. **Steering** [CMM16]. **Steps** [PST+17]. **Sticks** [BE11a]. **Stigmergy** [ZZJJ15]. **Stigmergy-Based** [ZZJJ15]. **Still** [JWCR18]. **Stop** [LW11]. **Storage** [Gho10]. **Store** [GAM+17]. **Stores** [RNA+16b]. **Stories** [Boo12e, Boo13e, Boo14e, CH17, Ris10b, Ris14]. **Story** [HBS17a, HBS19, Shu13f]. **Storyboarding** [SM10b]. **Storytelling** [Uit13]. **Strategic** [BNW10, CKH16, CH13d, MJZCH13, PT18, PLC19, Spi15f]. **Strategies** [Ano15-36, Ano16-50, DD12, LDBF19, SW11a, Ano17-52]. **Strategy** [TvV12]. **Stream** [Ker17, Ker18d]. **Streamlining** [HHLJ10]. **Streams** [NYMS12]. **Streetlight** [Joh13]. **Strict** [LCH17]. **Strokes** [Via18]. **Structures** [PvdHM15, Par18]. **Studio** [BW14]. **Studio-Based** [BW14]. **Study** [ASR17, BCLP15, BSD16, BMSF15, GGGM19, Kee15a, LX17, McG11, MCBT13, MAN+14, NHM19, OT11, RVT18, SJS12, ZF13]. **Studying** [BvdHOP12, MSAH17]. **Styles** [Bus10c]. **Subscribe** [Ano19g, Ano19j, Ano19-46, Ano19-47]. **Substitution** [Rut16]. **Succeed** [Bro19, SMLF19]. **Success** [ASP13, JN10, Lob11, PDNdSB12, Spi18e, WAA+12]. **Successful** [Jor19, Kle16, MMYJ10, Roz15, STG19]. **Successfully** [KHD19]. **Suisse** [SJG13, MH14]. **Summaries** [BH17]. **Summit** [Ano14-33, Ano15-30]. **Super** [LLV16]. **Super-ility** [LLV16]. **Support**

[BBB+19, FN14, Gat16, PMCE12, WLD19, WHR10]. **Supported** [FSB+12]. **Supporting** [BW14, Fer18, LWCP17]. **Surprise** [Ano17n]. **Survey** [RVT18, UM10, dBLMT11]. **Sustainability** [ASH13, BBC+16, CCC+19, CNZC17, CPS18, KDGV13, PZA+17b, PRRT14, Pen15, PDV+18, SNMF13, SB16]. **Sustainable** [Ano16y, Ano18e, Ano19m, Ano19n, LIL+13, ZCTZ13]. **Swarms** [PB16, VOGB18]. **Sweet** [Ano14-35]. **Switzerland** [SJG13]. **Symbiotic** [BBB+18]. **Symbolic** [YLK+17]. **Synergetic** [LNH+11]. **Synthesis** [AIT15]. **System** [ASP13, BBB+11, Bus10d, Cab18, CH13a, CNZC17, Fre10, HSEG10, Kna19, Lob11, MCHK17, RNA+16b, Sdd+18, SAO+17, TI11, WGC+13, vdBB17]. **System-Level** [SAO+17]. **Systematic** [SSE12]. **Systems** [Ave11, BMSS18, Boo10f, BCH15, BO17, CCC+19, CGE19, CFF+13, CCP+18, CKH16, CCD+17, ED19, EW19, EFO14, GFT15, Gor13, GK15a, GBM16, Hol19a, HHLJ10, Joh16, KR10, KSTS17, LC11, LDO+14, LMSS11, LSCK12, LCYL14, LX17, MG17, MM18b, MGMS11, MDOS11, MHLCL16, Mos10, NH15, NPJ19, Pec13, PGG+18, RCLR18, RRL+17, RWZ10, Ron16, Sal19, SA11, SHG14, Spi12d, Spi13e, Tou11, VRG16, VMVS19, WG10, Ano19h].

T [Sma18]. **Table** [Ano14-36, Ano14-37, Ano14-38, Ano14-39, Ano14-40, Ano15-33, Ano15-34, Ano16-45, Ano16-46, Ano16-47, Ano16-48, Ano17-45, Ano17-46, Ano17-47, Ano17-48, Ano17-49, Ano17-50, Ano18-39, Ano18-40, Ano18-41, Ano18-42, Ano18-43, Ano18-44, Ano19-48, Ano19-49, Ano19-50, Ano19-51, Ano19-52, Ano19-53]. **Taggart** [Bha18]. **Tail** [LXB+15]. **Tail-Tolerant** [LXB+15]. **Tailored** [MM18b]. **Tailoring** [BH19]. **Take** [Ano15-36, Ano16-50, Kie10, Ano17-52]. **Takeover** [VMvG12]. **Taking** [LTv19]. **Tale** [Hol17d]. **Tame** [MHF17]. **Tammy** [Sal18]. **Tangible** [BDD+14]. **Tanzanian** [SJ15]. **Target** [Ano14y]. **Task** [KCD12, TBvRB12, Zim15]. **Task-Based** [KCD12]. **Task-Centric** [Zim15]. **Task-Effective** [TBvRB12]. **Taxes** [DLR10]. **Taxonomies** [FB15, GV11]. **Taxonomy** [KUG18, TM18]. **TCSE** [Ano17g]. **Teach** [BCD+17]. **Team** [AHMS18, DFD+16, Fai19f, Kee18, Spi15e, VB16, XYCW18, dSMdSC16]. **Teams** [BSW19, CE19, CMY17, DvGvS14, FRM15, GGGM19, HBN13, MCL12, PM10, PPMD17, RL16, REV10, RH13, SKK14, TBvRB12, Ter11, Woo15a]. **Tech** [Ano18v, Ano19-35]. **TechIgnite** [Ano17-51]. **Technical** [Bav12, Boo10e, Bus11d, CSS13, CCCM17, Con12, CSS12, KNO12, LI12, LTS12, MTM+19, RKW15, SWA17, WJ15]. **Techniques** [APPV19, BE11b, HM13, MPD14, SCL18, UM10, VM12]. **Technologies** [ES14, EHMFT19, PCdGPE11, PMCE12, REV10, RPE19, Sca17, SGH15, ZWGY12, Ano17j]. **Technology** [Bus10b, CE19, CMP17, DDIP15, EC17, McG11, MM13, Pel12]. **Telematics** [HCF+15]. **Tell** [Boo14e, Ham18, vGMRW14]. **Telling** [Ris10b]. **Temporary** [PPMD17]. **Ten** [MW19, vGH19]. **Term** [SNMF13]. **Terrible** [Boo13c]. **Terrorism** [CH13a]. **Test** [Ano16-32, ADSS18, GF16, GE17, GFH18, GKF19, Gue14, IML16, KT18, Lou11, NH15, PRPE13, SMT+10, SAO+17, Whi12, WHR10, YLK+17]. **Test-Driven** [Gue14, KT18, SMT+10]. **Testing** [AGIF17, Als13, AFT+15, BBdH+11, Bav12, BB17, CCMT16, CR11, DS13, FB15, GF17, GFKY18, GTS+19, Hol15a, HLS17, KDL17, KTH11, LBL17, LCYL14, MHJ17, MZLD12, MLD+13, dMSNRdCM+11, RPFA+14, RKTS12, Sch12, Shu12a, Spi17f, SS17, UM10, ZML+12]. **Tests** [Bus11c, Til16a]. **Texts** [FS12]. **Their** [DZB18]. **Them**

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